Assignment

Topic Name: ERD

Submitted to: Sir Imran Mughal

Submitted by: Maimoona Khilji

Registration No: 195300273

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Assignment 1

Real Life Problem Analysis using ER Model with Basic and Enhanced concepts and notations.

Real Life Problem: Hospital Management System

Entities:

- Hospital
- Doctors
- Patients
- Medical Test
- Receptionist
- Records

Entity Relationship:

- One Hospital has many Doctors.
- Many Doctors attend many Patients
 (In other words, different doctors checks different patient in one hospital at a time.)
- One Patient may have zero or many Medical Test Reports.

Note:

• Disjoint rule is used because a **Doctor** must be either a Trainee, Visiting or Permanent doctor.

Attributes:

<u>Attribute</u>	<u>Entity</u>
Primary Key	
Hos_ID	Hospital
Doc_ID	Doctors
Record_ID	Records
P_ID	Patients
Composite Attribute	
Address (Composed of Colony, City, Zip)	Hospital, Patients
<u>Derived Attribute</u>	
Age (Derived of Date of birth i.e. D_O_B)	Patients
Multivalued Attribute	
Phone_No.	Patients

Notations:



Symbols:

Attribute

Derived Attribute

Multivalued Attribute

Relationship

Entity

